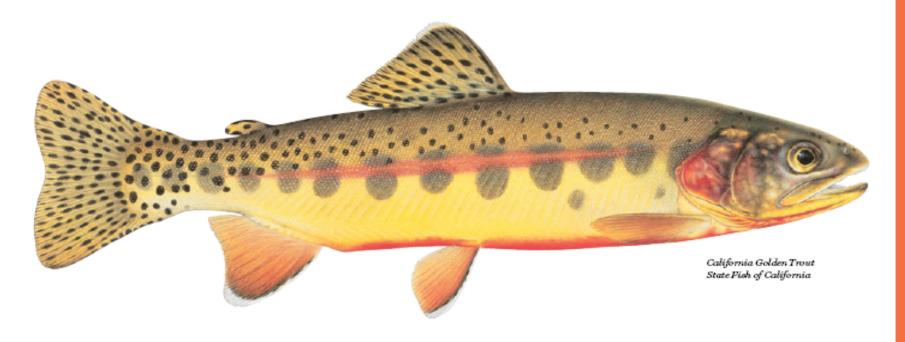
SOS: California's Native Fish Crisis

Status of and solutions for restoring our vital salmon, steelhead and trout populations



Based on a report by Dr. Peter B. Moyle, Dr. Joshua A. Israel, and Sabra E. Purdy, commissioned by California Trout



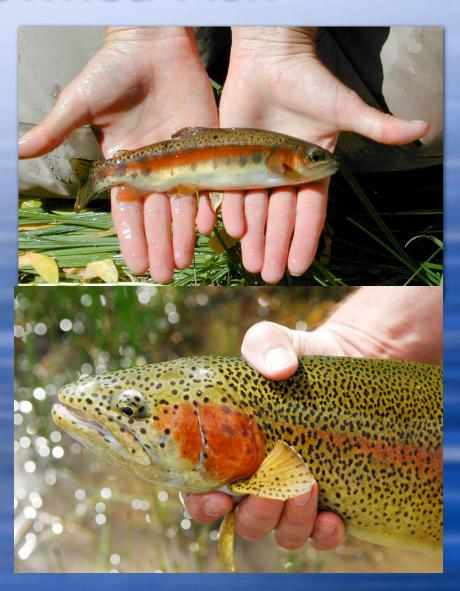
Today's Talk

- Update on McCloud/Nestle
- Introduce Mount Shasta Springs Study
- Integrated Regional Water Management Plan (IRWMP) Application



World Renowned Fish





Town of McCloud



McCloud Mill Site



The Threat: Nestle Waters of North America

- 2003 Nestle signs a contract with the McCloud service district.
 - One million sq foot bottling plant-one building covering 22 acres
 - ~552,000,000 gallons of water at .00008 ¢ a gallon
 - 100 years with no opportunity to renegotiate
 - A truck every 3 minutes to haul the water to LA
 - NO baseline science = no way to prove harm

History of Nestle Project

- Fall 2003
 - McCloud signs contract with Nestle
- **◆** 2004-2005
 - Legal challenge by local citizens, denied
- ◆ Fall 2006—Draft EIR
 - Over 4,000 comments
 - Egregious, "worst I have ever seen"
- Summer 2007
 - Nestle scraps Draft EIR
- Summer 2008
 - Nestle cancels contract with the town

Where Are We Now?

- Nestle scaled back the plant and cancelled the contract
 - Pushing to re-open negotiations
 - ◆ 350,000 sq. ft. plant
 - ◆ 600 acre feet of water
- Two years of baseline aquatic biology and hydrology data, flow reduction experiment underway
- Town not committing to renegotiations, vet

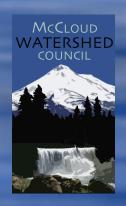
Protect Our Waters Coalition

JOINING TOGETHER TO PROTECT Mount Shasta's unique water supply by investing in science, education and policy analysis









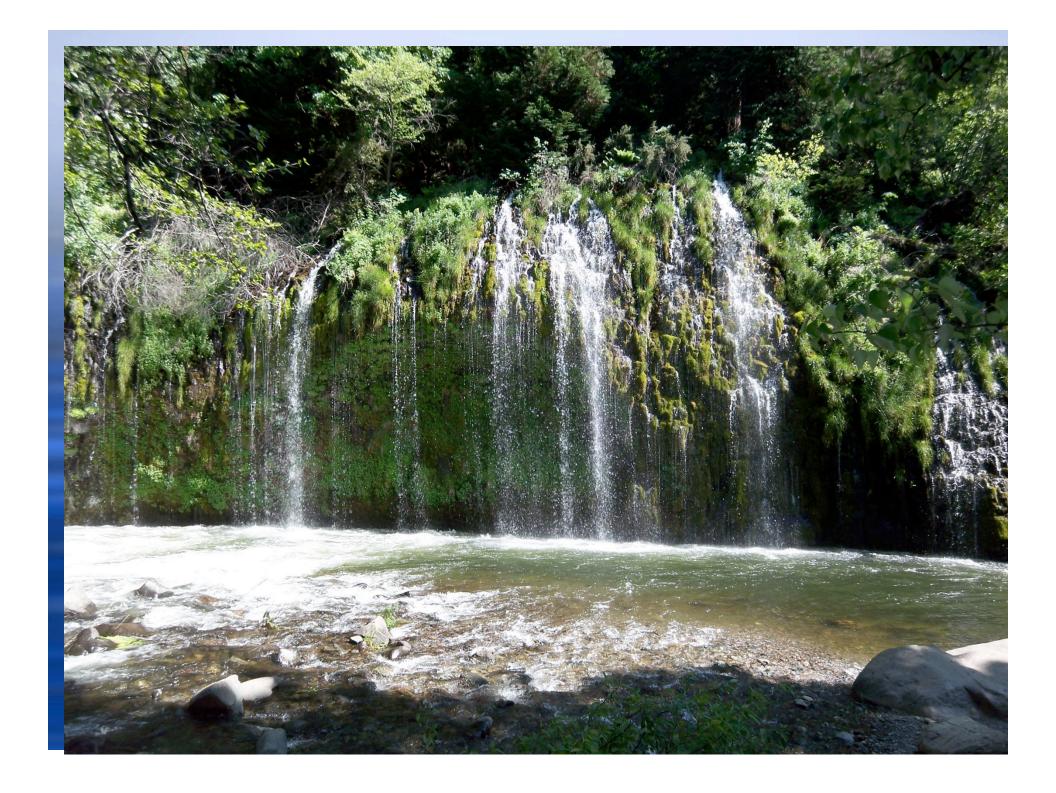


Importance of Spring Water

- Biological
 - Shasta River
 - Upper Sacramento River
 - McCloud River

Keystone rivers in their respective watersheds





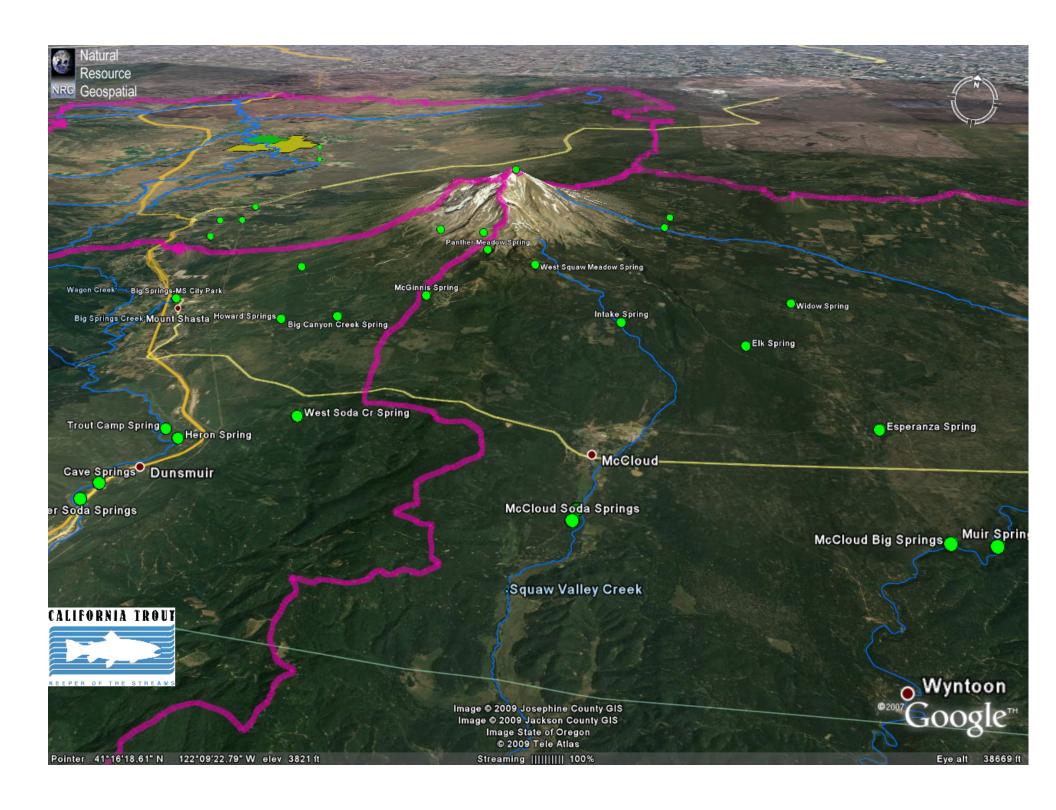


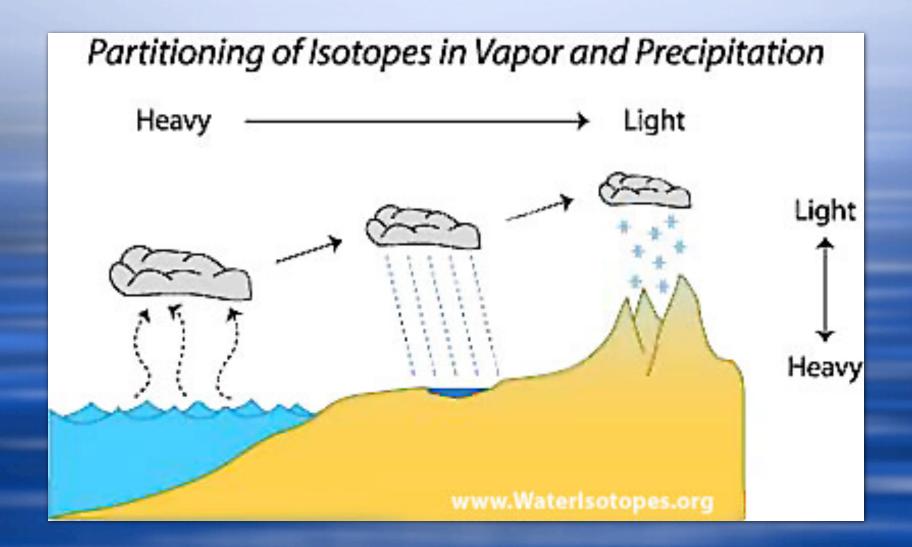
Mt. Shasta Springs Study

 First order characterization of spring water general and physical chemistry and isotopic analysis

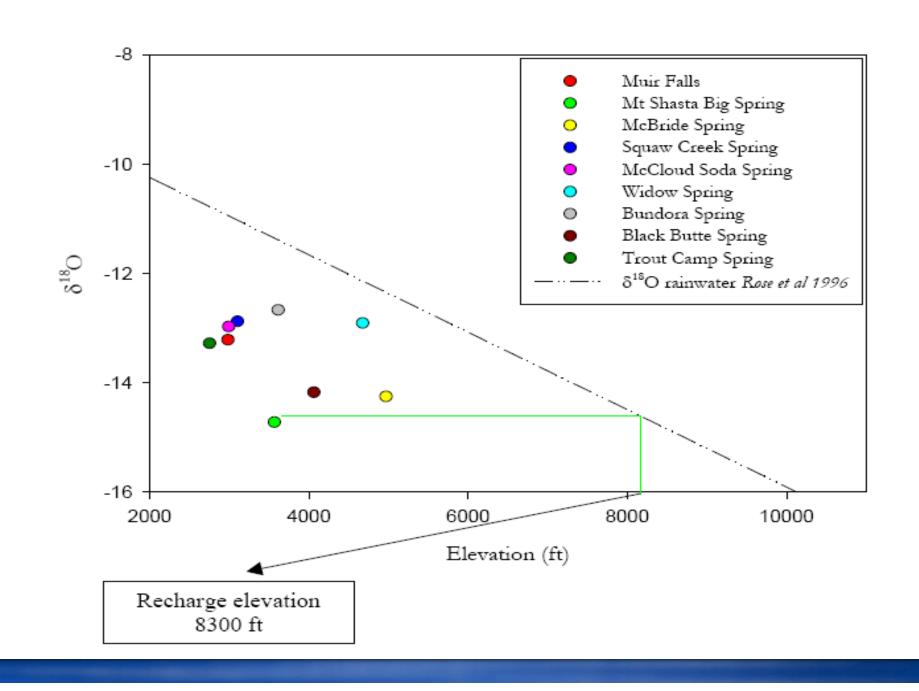
23 springs—temperature, flow, isotopes, tritium (3 springs)

 To determine groundwater basins, recharge elevations, and residence time







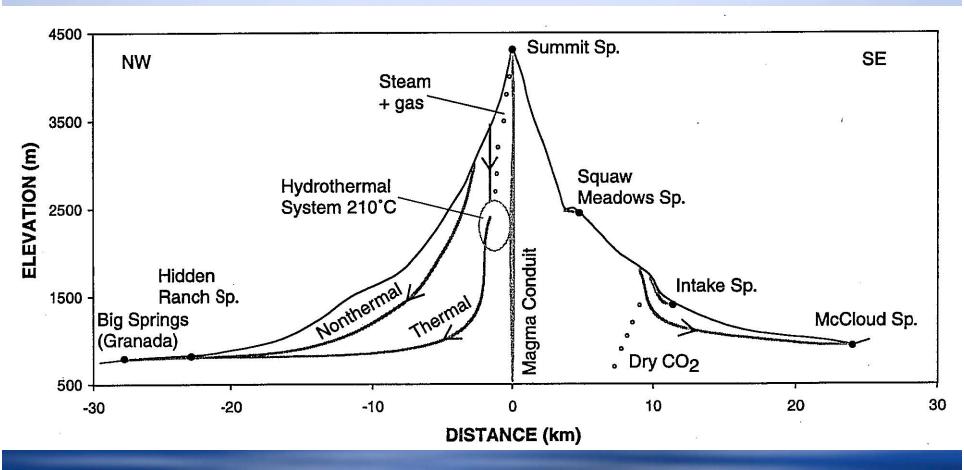


1. Non-thermal springs, immediate recharge area, higher vulnerability

2. Non-thermal springs, high recharge elevation, lower vulnerability

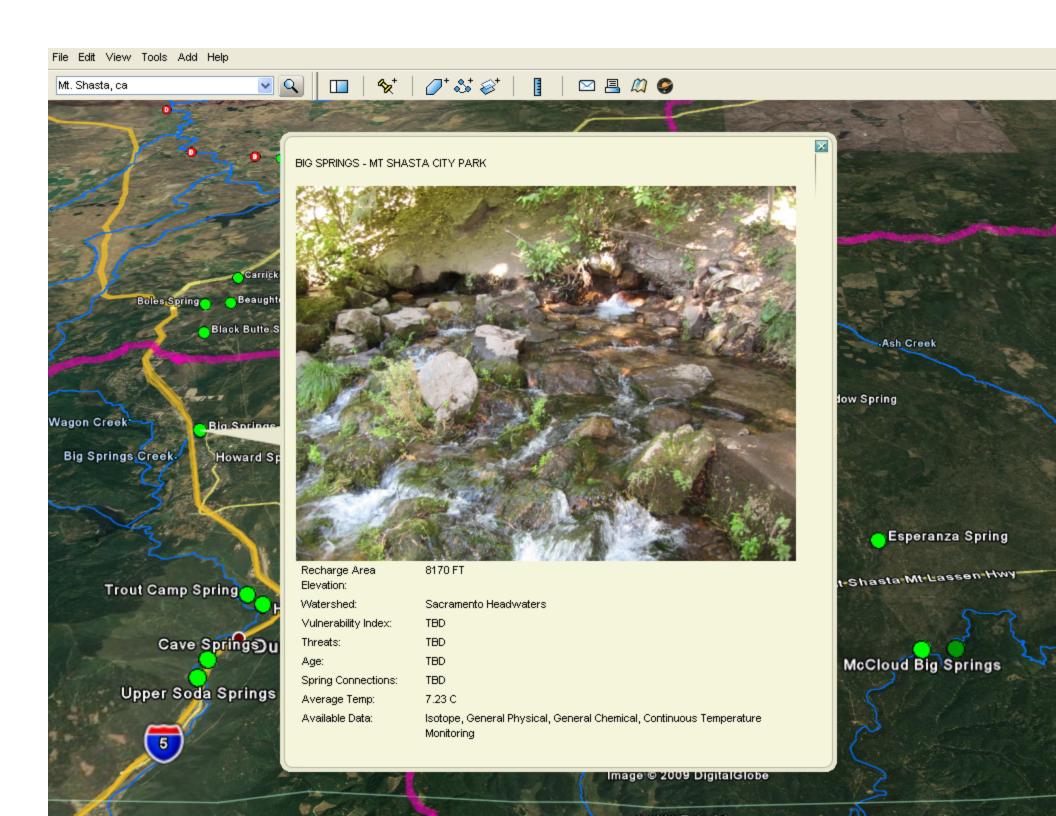
3. Slightly thermal springs, high recharge elevation, hydrothermal influence

4. Slightly thermal *mineral* springs with high amounts of dissolved



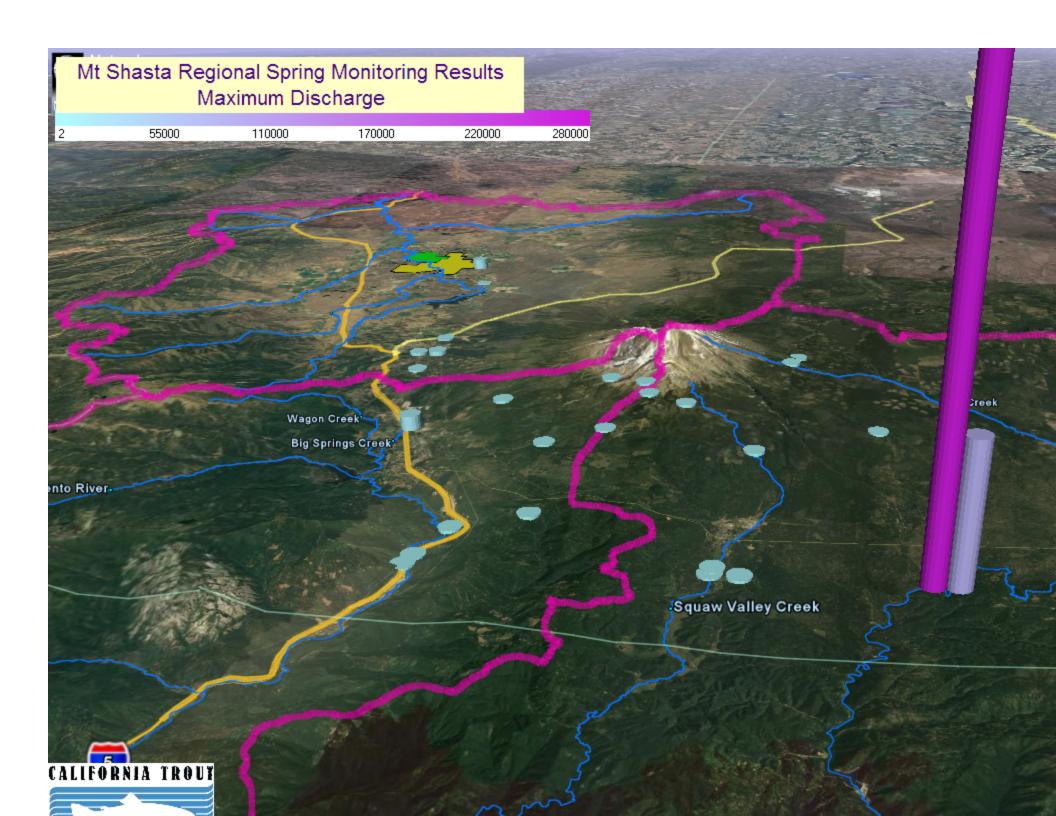
Nathenson, et al. 2006

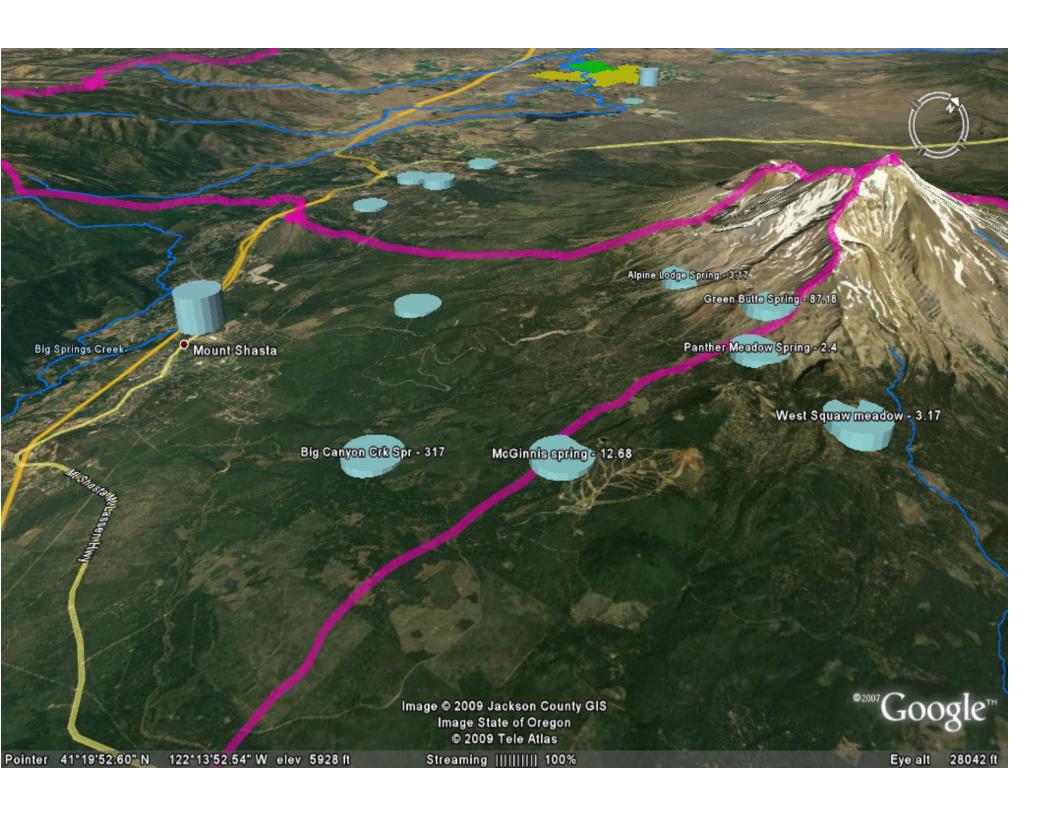












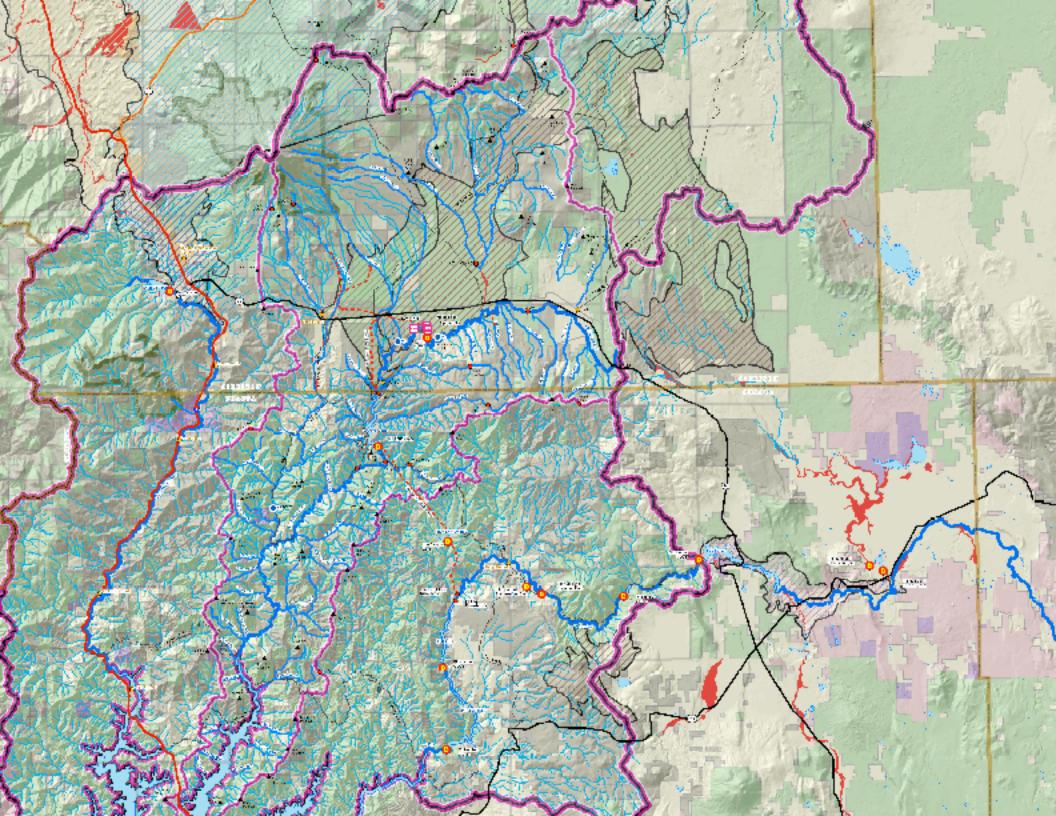
IRWMP Integrated Regional Watershed Management Plan

- What it is, why we applied
- RWMG Composition
- Proposed Region Map
- Next Steps

Regional Watershed Management Group

- The City of Mount Shasta (SA)*
- The City of Dunsmuir (SA)
- McCloud Community Services District (SA)
- Siskiyou County (SA)
- Winnemem Wintu tribe
- U.S. Forest Service, Shasta Trinity National Forest (SA)
- U.S. Fish and Wildlife Service, Red Bluff office (SA)
- California Department of Fish and Game, Redding office (SA)
- McCloud Watershed Council

- McCloud CRMP
 (private landowners in the McCloud watershed)
- Shasta Valley
 Resource
 Conservation District
- Mt. Shasta Area Audubon
- Mt. Shasta Trail Association
- Siskiyou Land Trust
- Sierra Club, Mother Lode Chapter, Shasta Group
- Mt. Shasta Bioregional Ecology Center
- *SA = Statutory Authority



IRWMP Next Steps

- Interview on 6/9/09 went well
- Wait for approval (2-3 months)
- If approved and State budget works out then 30 million will be available for planning grants early next year

